

WLPCS
Geometry

Name: ANSWER KEY

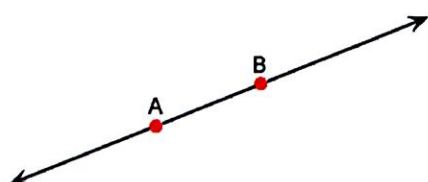
Date: _____

Per.: _____

Unit 1 Review

Directions: Complete the problem set. Check your answers against the answer key as you work!

1. Which axiom does the following diagram represent? State the full axiom (not just the number).



Axiom #2 - a line segment can be extended indefinitely to form a line.

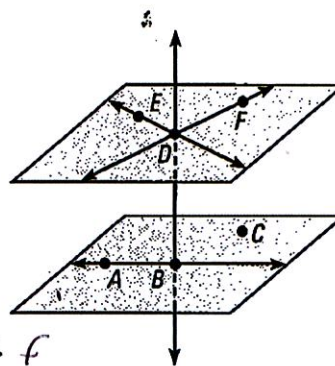
2. Illustrate the following axiom:



Given any line segment, a circle can be drawn using the segment as the radius with one endpoint as the center.

Decide whether the statement is true or false.

3. Points A, B, and C are collinear. F
4. Points A, B, and C are coplanar. T
5. Point F lies on \overleftrightarrow{DE} . F
6. \overleftrightarrow{DE} lies on plane DEF. T
7. \overleftrightarrow{BD} and \overleftrightarrow{DE} intersect. T
8. \overleftrightarrow{BD} is the intersection of plane ABC and plane DEF. F



9. Where does \overleftrightarrow{DF} intersect Plane P?

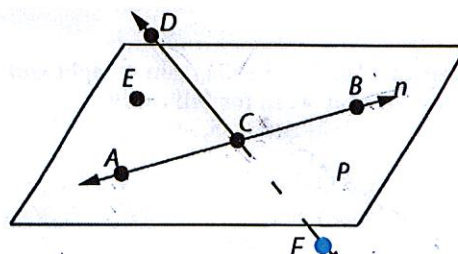
Point C

10. Where does \overleftrightarrow{DF} intersect \overleftrightarrow{AB} ?

Point C

11. Name Plane P using 3 points:

Plane EAB (among others)



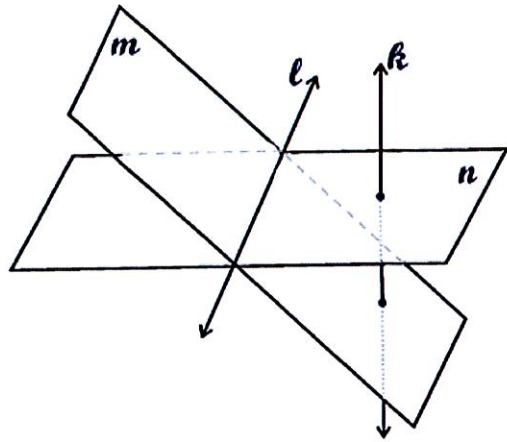
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12. Where does Plane m intersect Plane n ?

Line l

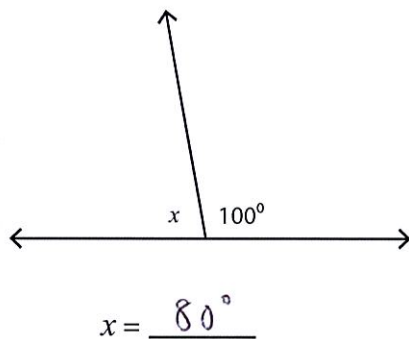
13. Describe the intersection of line k and Plane n (is it a point, line, or plane?).

A point

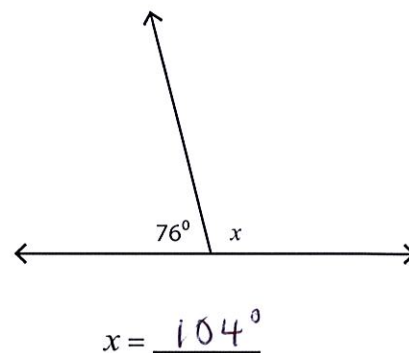


Directions: Find the value of x .

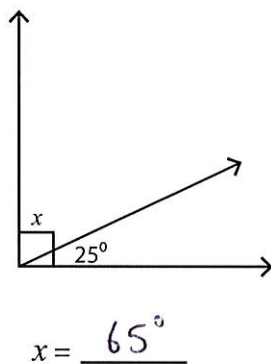
14.



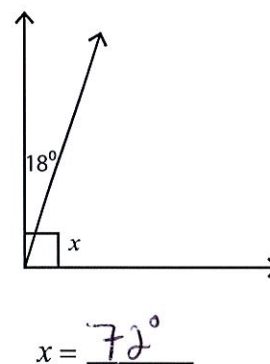
15.



16.



17.



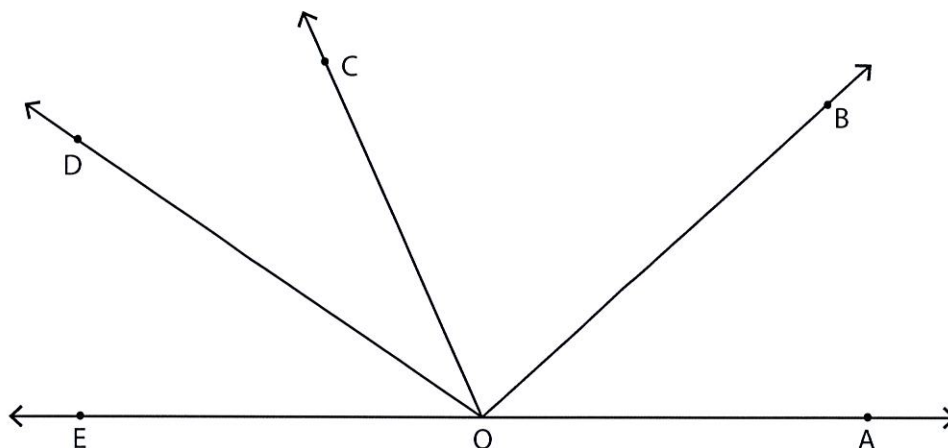
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18. Using the diagram below:

- Name an obtuse angle: $\angle DOA$
- Name a straight angle: $\angle EOA$
- Name two supplementary angles: $\angle EOD + \angle DOA$
- Name **three** supplementary angles: $\angle EOD + \angle DOB + \angle BOA$
- If the measure of $\angle EOC$ is 78° , what is the measure of $\angle COA$? 102°

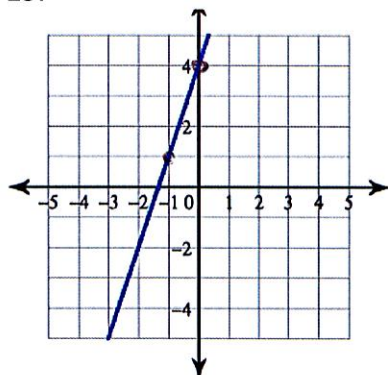
Several
correct
answers

- Explain how you found your answer to part e. (Hint: What is the relationship between those two angles?) $\angle EOC$ and $\angle COA$ are supplementary $\rightarrow 180^\circ - 78^\circ = 102^\circ$



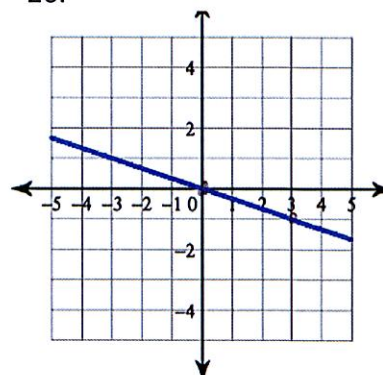
Directions: For 19 – 20, write the equation of the line in slope-intercept form.

19.



$$y = 3x + 4$$

20.



$$y = -\frac{1}{3}x$$